

	Application No.	Applicant(s)
	10/049,458	JI-TAE KIM ET AL
Notice of Allowability	Examiner	Art Unit
	Anh V La	2636
The MAILING DATE of this communication apply All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover she t with the c (OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to 3 and MPEP 1308.	orrespondence address plication. If not included n will be mailed in due course. THIS o withdrawal from issue at the initiative
1. This communication is responsive to the amendment filed	on Sept. 14, 2004 and the interview	dated on Jan. 07, 2005 .
2. The allowed claim(s) is/are <u>1-14</u> .		
3. \boxtimes The drawings filed on <u>24 June 2002</u> are accepted by the E	xaminer.	
 4. Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 	es reason(s) why the oath or declara	S'S AMENDMENT or NOTICE OF ation is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 	son's Patent Drawing Review (PTO s Amendment / Comment or in the C 1.84(c)) should be written on the drawi	Office action of
each sheet. Replacement sheet(s) should be labeled as such in to 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL i	must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☑ Interview Summary Paper No./Mail Da 08), 7. ☑ Examiner's Amendo	Patent Application (PTO-152) (PTO-413), te ment/Comment ent of Reasons for Allowance

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I. Statement of Reasons for Allowance:

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art cited herein fails to disclose a passive transponder identification system for detecting and monitoring the existing of automobiles and other object within a constant detection area comprising a transmitter 100 to radiate two different radio frequency (RF) signals within the area to a transmitting antenna 110, either of the signals being modulated to a fixed low frequency (LF) and an antenna 210 modulated with two different center frequencies, wherein an impedance semiconductor circuit part 220 inserted into the modulated antenna combines the two RF signals, and the system further includes a transponders 200 having a tank circuit to contain a resonant frequency equal to sum of two different frequencies to re-radiate a data-tone carrier signal to such combined frequency and a narrow-bandwidth receiver 300 having a receiving antenna 310 to receive and demodulate the carrier signal by excluding the transmitting RF signal and it harmonics to detect LF modulating signal.

Regarding claim 11, the prior art cited herein fails to disclose a system to detect cars or other objects existing within a detection area comprising a transmitter 100 to run and radiate radio frequencies (RFs) having a narrow-bandwidth by using a carrier frequency modulated by a certain LF tone, wherein the system includes a transponder 200 to respond the signal from the transmitter 100 to be radiated by the transmitter 100 to run and re-radiate the carrier signal by different harmonics, the re-radiated signal comprising a fixed LF tone produced by adding a data stream to the LF tone, the system further comprises a receiving system 300 having a narrow-bandwidth filter 311 to contain the carrier signal re-radiated at the harmonics so that it produces filtered output corresponding the re-radiated signal received by an antenna 310 to receive said re-radiated carrier signal and to prevent the signals including ones of even the

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frequencies other than the narrow-bandwidth received by the antenna 310, and having

a demodulation means responding to a comparison level of the output to generate LF

modulation signal and demodulate the filtered output even when a comparator 312

exceeds a preset threshold value and runs.

II. Examiner's Amendment:

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview

with Mr. Michael E. Kondoudis on January 07, 2005

Examiner's Amendment

In the claims:

Claims 15-21 have been canceled.

In claim 1, line 3, the phrase "RF signals" has been changed to --radio frequency

(RF) signals--.

In claim 1, lines 6-7, the phrase "said RFs" has been changed to - -said two RF

signals--.

In claim 11, line 2, the phrase "radiate RFs" has been changed to --radiate radio

frequencies (RFs)--.

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In the abstract:

In the abstract, line 9, the phrase "means of" has been canceled.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh V La whose telephone number is (571) 272-2970. The examiner can normally be reached on Mon-Fri from 9:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffery Hofsass can be reached on (571) 272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANH V. LA PRIMARY EXAMINER

Anh V La Primary Examiner Art Unit 2636

Al January 07, 2005